

## PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 198 AT DINO DRIVE INCLUDING LED TRAFFIC SIGNAL HEADS AND SIGNS. MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

## INTERSECTION OPERATION

THE INTERSECTION CONTROL BEACON WILL OPERATE IN ONE FLASH ONLY PHASE.

## CONTROLLER REQUIREMENTS

A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY MONTGOMERY COUNTY.

## SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

## CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CEDRIC WARD  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 513-7498

MR. KEVIN NOWAK  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
(301) 513-7385

MR. VERNON STINNETT  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(301) 513-7304

## CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
DIVISION  
PHONE: (410) 787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF  
TRAFFIC OPERATIONS  
(410) 787-7631

MR. ED RODENHIZER  
SIGNAL OPERATIONS MANAGER  
(410) 787-7650

MR. EUGENE BAILEY  
SIGN OPERATIONS MANAGER  
(410) 787-7676

## CONTACT PERSONS FOR MONTGOMERY COUNTY ARE AS FOLLOWS:

MR. KAMAL HAMUD  
TRAFFIC ENGINEER  
PHONE: (240) 777-8761

MR. BOB RICKETTS  
MONTGOMERY COUNTY SIGNAL SHOP  
(301) 279-1291

## GENERAL NOTES

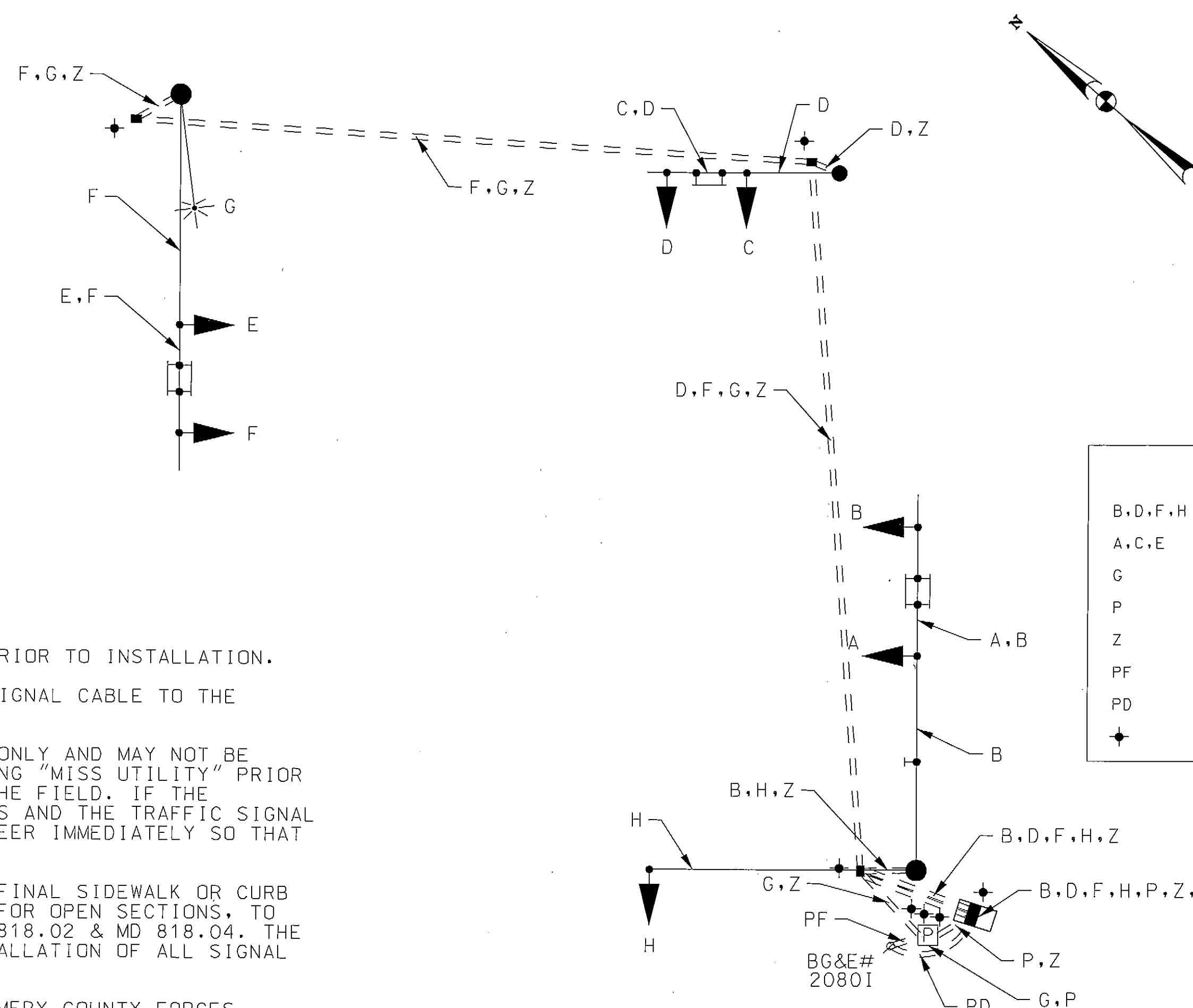
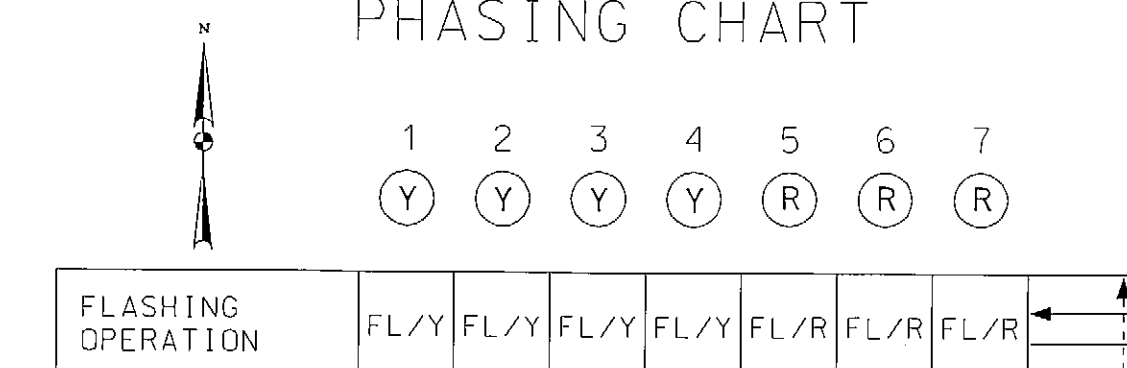
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02 & MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT MR. KAMAL HAMUD AT (240) 777-8761, 72 HOURS IN ADVANCE OF INTENDED WORK.

## EQUIPMENT LIST "A, B & C"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9000	CONTROLLER CABINET, SIZE S	EA	1
9041	CABINET MASTER WITH TELEMETRY AND CONTROLLER	EA	1
9570	SHEET ALUMINUM SIGNS - GROUND MOUNTED	SF	14
	1 - R5-1 36"x36"		
	1 - R4-7 24"x30"		
9571	SHEET ALUMINUM SIGNS - MAST ARM/POLE MOUNTED	SF	54
	2 - D-3(1) 60"x16" - DUAL FACED		
	1 - M1-5(4) 78"x36"		
	1 - R3-5(R) 30"x36"		
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	2
2002	TEST PIT EXCAVATION	CY	2
8001	12 INCH LED SIGNAL HEAD SECTION	EA	7
8007	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE	EA	1
8012	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH	EA	1
8014	INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE)	EA	1
8018	MAST ARM POLE & 38' MAST ARM ANY 'T' DIMENSION	EA	1
8021	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION	EA	1
8024	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8027	TWIN MAST ARM POLE & 50'/70' MAST ARMS ANY 'T' DIMENSION	EA	1
8035	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE T/C	LF	400
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	280
8040	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	140
8041	WOOD SIGN SUPPORTS UP TO 4' X 6'	LF	30
8042	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	68
8044	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	400
8047	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN	LF	50
8048	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	3
8057	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	70
8058	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	950

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

## PHASING CHART



## WIRING KEY

B,D,F,H	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
A,C,E	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
G	2-CONDUCTOR ELECTRICAL CABLE, TYPE T/C (NO. 12 AWG)
P	1-CONDUCTOR ELECTRICAL CABLES (NO. 8 AWG-THHN/THWN), 3 RUNS
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
PF	UNDERGROUND POWER SERVICE BY BG&E
PD	PHONE DROP
+	GROUND ROD

TOD NO: XX439-11  
SHA NO: MO242856  
MD 198 @ Dino Drive



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 198 (SANDY SPRING ROAD) AT  
DINO DRIVE  
BURTONSVILLE, MARYLAND

## GENERAL INFORMATION SHEET

SCALE	NONE	DATE	FEBRUARY 2012	CONTRACT NO.	XX4395185
DESIGNED BY	WFW	COUNTY	MONTGOMERY		
DRAWN BY	WFW	LOGMILE	15019804.00		
CHECKED BY	BJG	TMS NO.	K987		
FAP NO.		TOD NO.			

TS NO. 4815-G1	DRAWING	SP-2	OF 2	SHEET NO. 2	OF 2
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